Table 16

Doctorate recipients, by subfield of study and sex: 2020

| Field of study | Totala | Male | Female | % fema |
|---------------------------------------------------------------------------------------|--------|--------|--------|--------|
| All fields | 55,283 | 29,886 | 25,392 | 45 |
| Life sciences | 12,561 | 5,553 | 7,007 | 55 |
| Agricultural sciences and natural resources | 1,472 | 746 | 725 | 49 |
| Agricultural sciences | 920 | 470 | 450 | 48 |
| Agricultural economics | 137 | 84 | 53 | 38 |
| Agronomy, horticulture science, plant breeding, plant pathology, plant sciences-other | 363 | 196 | 167 | 46 |
| Animal nutrition, poultry science | 75 | 39 | 36 | 48 |
| Animal sciences, other | 139 | 54 | 85 | 61 |
| Food science, food technology-other | 143 | 67 | 76 | 53 |
| Soil chemistry and microbiology, soil sciences-other | 63 | 30 | 33 | 52 |
| Natural resources and conservation | 476 | 238 | 237 | 49 |
| Environmental science | 201 | 87 | 114 | 56 |
| Fishing and fisheries sciences and management | 49 | 28 | 21 | 42 |
| Forest biology, forest management, forestry sciences-other | 92 | 60 | 31 | 33 |
| Natural resources policy and environmental economics | 66 | 26 | 40 | 60 |
| Natural resources and conservation, wildlife and range management | 68 | 37 | 31 | 45 |
| Agricultural sciences and natural resources, aggregated | 76 | 38 | 38 | 50 |
| Biological and biomedical sciences | 8,418 | 3,892 | 4,526 | 53 |
| Anatomy, developmental biology | 141 | 70 | 71 | 50 |
| Bacteriology, parasitology, and virology | 136 | 65 | 71 | 52 |
| Biochemistry (biological sciences) | 687 | 352 | 335 | 48 |
| Bioinformatics | 223 | 149 | 74 | 33 |
| Biomedical sciences | 409 | 168 | 241 | 5 |
| Biometrics and biostatistics | 241 | 114 | 127 | 5: |
| Biophysics (biological sciences) | 174 | 113 | 61 | 3 |
| Botany, plant pathology, plant physiology | 152 | 73 | 79 | 5: |
| Cancer biology | 305 | 138 | 167 | 5. |
| Cell, cellular biology, and histology | 168 | 81 | 87 | 5 |
| ** | 137 | 76 | 61 | 4 |
| Computational biology | | - | | |
| Ecology | 388 | 175 | 213 | 5- |
| Endocrinology, human/ animal pathology | 78 | 30 | 48 | 6 |
| Entomology | 124 | 68 | 56 | 4 |
| Environmental toxicology | 58 | 26 | 32 | 5 |
| Epidemiology | 357 | 111 | 246 | 6 |
| Evolutionary biology | 207 | 92 | 115 | 5 |
| Genetics and genomics, human and animal | 347 | 148 | 199 | 5 |
| Immunology | 389 | 172 | 217 | 5 |
| Microbiology | 478 | 200 | 278 | 5 |
| Molecular biology | 579 | 272 | 307 | 5 |
| Molecular medicine | 36 | 13 | 23 | 6 |
| Neurosciences, neurobiology | 974 | 484 | 490 | 5 |
| Nutrition sciences | 205 | 44 | 161 | 78 |
| Pharmacology, human and animal | 208 | 101 | 107 | 5 |
| Physiology, human and animal | 151 | 70 | 81 | 5 |
| Plant genetics | 61 | 38 | 23 | 3 |
| Structural biology | 54 | 33 | 21 | 38 |
| Toxicology | 63 | 24 | 39 | 6 |
| Wildlife biology, zoology | 76 | 32 | 44 | 5 |
| Biological and biomedical sciences, general | 649 | 286 | 363 | 5 |
| Biotechnology, biology/ biomedical sciences-other | 163 | 74 | 89 | 5. |

Table 16
Doctorate recipients, by subfield of study and sex: 2020

| eld of study | Total ^a | Male | Female | % female |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------|--------|------------|
| Health sciences | 2,671 | 915 | 1,756 | 65.7 |
| Environmental health | 83 | 29 | 54 | 65.1 |
| Health and behavior | 62 | 15 | 47 | 75.8 |
| Health services/ systems administration | 170 | 56 | 114 | 67.1 |
| Kinesiology, exercise science | 291 | 162 | 129 | 44.3 |
| Medical physics, radiological science | 81 | 60 | 21 | 25.9 |
| Nursing science | 591 | 73 | 518 | 87.6 |
| Pharmaceutical sciences | 382 | 216 | 166 | 43.5 |
| Public health | 431 | 113 | 318 | 73.8 |
| Rehabilitation, therapeutic services | 116 | 38 | 78 | 67.2 |
| Speech-language pathology and audiology | 125 | 37 | 88 | 70.4 |
| Health sciences, aggregated | 339 | 116 | 223 | 65.8 |
| Physical sciences and earth sciences | 6,247 | 4,177 | 2,068 | 33. |
| Chemistry | 2,763 | 1,669 | 1,092 | 39. |
| Analytical chemistry | 364 | 187 | 177 | 48.0 |
| Chemical biology | 135 | 81 | 54 | 40. |
| Inorganic chemistry | 327 | 188 | 139 | 42. |
| Medicinal chemistry | 85 | 52 | 33 | 38. |
| Organic chemistry | 535 | 364 | 171 | 32. |
| Physical chemistry | 398 | 260 | 138 | 34. |
| Polymer chemistry | 128 | 84 | 44 | 34. |
| Theoretical chemistry | 87 | 64 | 23 | 26. |
| Chemistry, general | 532 | 296 | 234 | 44. |
| · · | 172 | 93 | 79 | 44. 45. |
| Chemistry, other | | | | |
| Geosciences, atmospheric sciences, and ocean sciences | 1,243 | 737 | 506 | 40. |
| Atmospheric science and meteorology | 230 | 160 | 70 | 30. |
| Atmospheric physics, meteorology | 52 | 40 | 12 | 23. |
| Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other | 178 | 120 | 58 | 32. |
| Geological sciences | 674 | 409 | 265 | 39. |
| Geochemistry, mineralogy | 53 | 29 | 24 | 45. |
| Geology | 167 | 99 | 68 | 40. |
| Geomorphology, geological sciences-general, geological sciences-other | 284 | 159 | 125 | 44. |
| Geophysics and seismology | 144 | 107 | 37 | 25. |
| Paleontology, stratigraphy | 26 | 15 | 11 | 42. |
| Ocean and marine sciences | 339 | 168 | 171 | 50. |
| Marine biology and biological oceanography | 74 | 33 | 41 | 55. |
| Oceanography, chemical and physical | 71 | 39 | 32 | 45. |
| Ocean/ marine sciences, aggregated | 194 | 96 | 98 | 50. |
| Physics and astronomy | 2,241 | 1,771 | 470 | 21. |
| Astronomy and astrophysics | 305 | 202 | 103 | 33. |
| Astronomy | 116 | 71 | 45 | 38. |
| Astrophysics | 174 | 121 | 53 | 30. |
| Astronomy and astrophysics, other | 15 | 10 | 5 | 33. |
| Physics | 1,936 | 1,569 | 367 | 19.0 |
| Acoustics, optics/ photonics | 215 | 178 | 37 | 17.: |
| Applied physics | 154 | 125 | 29 | 18. |
| Atomic physics, polymer physics | 131 | 100 | 31 | 23. |
| Biophysics (physics) | 126 | 95 | 31 | 24. |
| Condensed matter, low-temperature physics | 376 | 329 | 47 | 12. |
| SOURCE CONTRACTOR CONTROL AND CONTROL DE LA | 0,0 | 02) | 7, | 12. |

Table 16

Doctorate recipients, by subfield of study and sex: 2020

| ield of study | Total ^a | Male | | % female |
|-------------------------------------------------------------------------------------|--------------------|-------|-------|----------|
| Nuclear physics | 98 | 78 | 20 | 20.4 |
| Plasma, high-temperature physics | 65 | 59 | 6 | 9.: |
| Physics, general | 447 | 352 | 95 | 21.3 |
| Physics, other | 126 | 91 | 35 | 27.8 |
| Mathematics and computer sciences | 4,392 | 3,297 | 1,095 | 24.9 |
| Computer and information sciences | 2,361 | 1,859 | 502 | 21.3 |
| Computer science | 1,952 | 1,571 | 381 | 19. |
| Information science, systems | 148 | 97 | 51 | 34. |
| Computer and information sciences, general | 151 | 107 | 44 | 29. |
| Computer and information sciences, other | 110 | 84 | 26 | 23.0 |
| Mathematics and statistics | 2,031 | 1,438 | 593 | 29.: |
| Algebra | 57 | 46 | 11 | 19.3 |
| Analysis and functional analysis | 57 | 48 | 9 | 15.8 |
| Applied mathematics, computing theory | 424 | 298 | 126 | 29.7 |
| Computational mathematics | 98 | 74 | 24 | 24. |
| Geometry, geometric analysis | 66 | 49 | 17 | 25. |
| Logic, topology/ foundations | 44 | 36 | 8 | 18. |
| Number theory | 51 | 37 | 14 | 27. |
| Operations research, mathematics/ statistics-general, mathematics/ statistics-other | 830 | 595 | 235 | 28. |
| Statistics (mathematics) | 404 | 255 | 149 | 36. |
| Psychology and social sciences | 8,946 | 3,588 | 5,358 | 59. |
| Psychology | 3,879 | 1,082 | 2,797 | 72. |
| Behavioral analysis | 47 | 12 | 35 | 74. |
| Clinical psychology | 1,282 | 286 | 996 | 77. |
| Cognitive neuroscience | 198 | 99 | 99 | 50. |
| Cognitive heardscience Cognitive psychology and psycholinguistics | 112 | 41 | 71 | 63.4 |
| Community psychology | 42 | 9 | 33 | 78. |
| Counseling | 277 | 75 | 202 | 70. |
| Developmental and child psychology | 161 | 20 | 141 | 87. |
| Educational psychology (psychology) | 94 | 20 | 74 | 78. |
| | | | | |
| Experimental psychology | 142 | 60 | 82 | 57. |
| Family psychology, human development and family studies | 166 | 33 | 133 | 80. |
| Health, medical psychology | 73 | 21 | 52 | 71.: |
| Industrial and organizational psychology | 213 | 89 | 124 | 58.2 |
| Marriage and family therapy, counseling | 91 | 25 | 66 | 72. |
| Neuropsychology, physiological psychology | 29 | 12 | 17 | 58. |
| School psychology (psychology) | 144 | 21 | 123 | 85. |
| Social psychology | 190 | 67 | 123 | 64. |
| Psychology, general | 302 | 103 | 199 | 65. |
| Psychology, aggregated | 316 | 89 | 227 | 71. |
| Social sciences | 5,067 | 2,506 | 2,561 | 50. |
| Anthropology | 448 | 145 | 303 | 67.0 |
| Anthropology, cultural | 248 | 82 | 166 | 66. |
| Anthropology, general | 101 | 37 | 64 | 63. |
| Anthropology, physical and biological | 99 | 26 | 73 | 73. |
| Economics | 1,216 | 809 | 407 | 33. |
| Econometrics, economics | 1,171 | 785 | 386 | 33.0 |
| Natural resources and environmental economics (social sciences) | 45 | 24 | 21 | 46. |
| Political science and government | 637 | 388 | 249 | 39. |
| Sociology | 607 | 243 | 364 | 60.0 |

Table 16
Doctorate recipients, by subfield of study and sex: 2020

| ield of study | Totala | Male | Female | % female |
|-----------------------------------------------------------------------------------------------------|--------|-------|--------|----------|
| Other social sciences | 2,159 | 921 | 1,238 | 57.3 |
| American, U.S. studies | 57 | 23 | 34 | 59.6 |
| Applied linguistics | 95 | 37 | 58 | 61.1 |
| Archaeology (social sciences) | 116 | 45 | 71 | 61.2 |
| Area, ethnic, and cultural studies | 156 | 58 | 98 | 62.8 |
| Criminal justice and corrections | 135 | 54 | 81 | 60.0 |
| Criminology | 103 | 39 | 64 | 62.1 |
| Demography, gerontology, statistics, urban affairs, social sciences- general, social sciences-other | 295 | 111 | 184 | 62.4 |
| Gender and women's studies | 50 | 8 | 42 | 84.0 |
| Geography | 301 | 147 | 154 | 51.2 |
| Health policy analysis | 56 | 18 | 38 | 67.9 |
| History, science and technology and society | 61 | 34 | 27 | 44.3 |
| International relations, international affairs | 131 | 75 | 56 | 42.7 |
| Linguistics | 232 | 105 | 127 | 54.7 |
| Public policy analysis | 249 | 105 | 144 | 57.8 |
| Urban, city, community and regional planning | 122 | 62 | 60 | 49.2 |
| Engineering | 10,476 | 7,882 | 2,593 | 24.8 |
| Aerospace, aeronautical, and astronautical engineering | 399 | 329 | 70 | 17. |
| Bioengineering and biomedical engineering | 1,083 | 653 | 430 | 39.7 |
| Chemical engineering | 994 | 695 | 299 | 30.1 |
| Civil engineering Civil engineering | 796 | 586 | 210 | 26.4 |
| Electrical, electronics, and communications engineering | 1,973 | 1,630 | 343 | 17.4 |
| Industrial and manufacturing engineering | 304 | 209 | 95 | 31.3 |
| · · · · | | 638 | 242 | |
| Materials science engineering | 880 | | | 27. |
| Mechanical engineering | 1,634 | 1,373 | 261 | 16.0 |
| Other engineering | 2,413 | 1,769 | 643 | 26.0 |
| Computer engineering | 479 | 377 | 102 | 21.3 |
| Environmental, environmental health engineering | 242 | 132 | 110 | 45. |
| Nuclear engineering | 169 | 134 | 35 | 20. |
| Robotics | 144 | 123 | 21 | 14.0 |
| Structural engineering | 113 | 99 | 14 | 12.4 |
| Systems engineering | 119 | 87 | 32 | 26.9 |
| Other engineering, aggregated | 1,147 | 817 | 329 | 28.7 |
| Education | 4,716 | 1,456 | 3,259 | 69.1 |
| Education administration | 927 | 346 | 580 | 62.0 |
| Educational administration and supervision | 150 | 68 | 81 | 54.0 |
| Educational and human resource studies, development | 44 | 16 | 28 | 63.6 |
| Educational leadership | 673 | 241 | 432 | 64.2 |
| Urban education and leadership | 60 | 21 | 39 | 65.0 |
| Education research | 2,279 | 665 | 1,614 | 70.8 |
| Counseling education, counseling and guidance | 232 | 60 | 172 | 74. |
| Curriculum, instruction, educational assessment/ measurement | 525 | 138 | 387 | 73.7 |
| Educational policy analysis | 123 | 48 | 75 | 61.0 |
| Educational psychology (education) | 190 | 45 | 145 | 76.3 |
| Educational statistics, research methods | 91 | 30 | 61 | 67.0 |
| Educational/ instructional technology, media design | 197 | 78 | 119 | 60. |
| Higher education evaluation and research | 408 | 162 | 246 | 60. |
| Learning sciences | 65 | 17 | 48 | 73.8 |
| School psychology (education) | 108 | 12 | 96 | 88.9 |
| Social and philosophical foundations of education | 67 | 24 | 43 | 64.2 |

Table 16

Doctorate recipients, by subfield of study and sex: 2020

| Field of study | Total ^a | Male | Female | % female |
|-----------------------------------------------------|--------------------|----------|----------|----------|
| Special education | 273 | 51 | 222 | 81.3 |
| Teacher education | 113 | 28 | 85 | 75.2 |
| Teaching fields | 940 | 292 | 648 | 68.9 |
| Health education | 50 | 13 | 37 | 74.0 |
| Literacy and reading education | 127 | 24 | 103 | 81.1 |
| Mathematics education | 122 | 49 | 73 | 59.8 |
| Music education | 84 | 48 | 36 | 42.9 |
| Science education | 139 | 34 | 105 | 75.5 |
| Teaching fields, aggregated | 418 | 124 | 294 | 70.3 |
| Other education | 457 | 125 | 332 | 72.6 |
| Education, general | 258 | 79 | 179 | 69.4 |
| Other education, aggregated | 199 | 46 | 153 | 76.9 |
| Humanities and arts | 4,939 | 2,516 | 2,423 | 49.1 |
| Foreign languages and literature | 564 | 223 | 341 | 60.5 |
| French | 89 | 29 | 60 | 67.4 |
| German | 49 | 22 | 27 | 55.1 |
| Spanish | 162 | 63 | 99 | 61.1 |
| Other languages and literature, aggregated | 264 | 109 | 155 | 58.7 |
| History | 887 | 512 | 375 | 42.3 |
| American history, United States and Canada | 319 | 195 | 124 | 38.9 |
| Asian history | 79 | 43 | 36 | 45.6 |
| European history | 148 | 80 | 68 | 45.9 |
| Latin American history | 42 | 24 | 18 | 42.9 |
| Middle, Near East history | 46 | 26 | 20 | 43.5 |
| History, general | 132 | 74 | 58 | 43.9 |
| History, aggregated | 121 | 70 | 51 | 42.1 |
| Letters | 1,392 | 589 | 803 | 57.7 |
| American literature, United States and Canada | 247 | 119 | 128 | 51.8 |
| Classics | 85 | 49 | 36 | 42.4 |
| Comparative literature | 175 | 82 | 93 | 53.1 |
| English language | 184 | 85 | 99 | 53.8 |
| English literature, British and Commonwealth | 335 | 112 | 223 | 66.6 |
| Rhetoric and composition | 206 | 72 | 134 | 65.0 |
| Speech and rhetorical studies | 33 | 16 | 17 | 51.5 |
| Letters, aggregated | 127 | 54 | | 57.5 |
| Other humanities and arts | 2,096 | 1,192 | 904 | 43.1 |
| African American studies, literature, and history | 68 | 25 | 43 | 63.2 |
| Art history, criticism, and conservation | 223 | 45 | 178 | 79.8 |
| Dance, drama | 92 | 36 | 56 | 60.9 |
| Film, cinema, video studies | 83 | 40 | 43 | 51.8 |
| Music | 76 | 42 | 34 | 44.7 |
| Musicology and ethnomusicology | | 56 | | |
| | 126 | | 70 | 55.6 |
| Music performance Music theory and composition | 136 116 | 71 84 | 65 32 | 47.8 |
| | | | | 27.6 |
| Philosophy, ethics | 460 | 334 | 126 | 27.4 |
| Religion/ religious studies, Jewish/ Judaic studies | 227 | 139 | 88 | 38.8 |
| Theology, religious education | 214 | 163 | 51 | 23.8 |
| Other humanities, aggregated | 275 | 157 | 118 | 42.9 |
| Other ^b | 3,006 | 1,417 | 1,589 | 52.9 |
| Business management and administration | 1,466 | 851 | 615 | 42.0 |

Table 16

Doctorate recipients, by subfield of study and sex: 2020

(Number and percent)

| Field of study | Total ^a | Male | Female | % female |
|-----------------------------------------------------|--------------------|------|--------|----------|
| Accounting | 157 | 82 | 75 | 47.8 |
| Business administration and management | 302 | 186 | 116 | 38.4 |
| Finance | 198 | 148 | 50 | 25.3 |
| Human resources, organizational behavior | 216 | 95 | 121 | 56.0 |
| Management information systems, business statistics | 109 | 65 | 44 | 40.4 |
| Marketing management and research | 109 | 58 | 51 | 46.8 |
| Other aggregated business fields | 375 | 217 | 158 | 42.1 |
| Communication | 593 | 230 | 363 | 61.2 |
| Communication research | 141 | 45 | 96 | 68.1 |
| Mass communication, media studies | 188 | 85 | 103 | 54.8 |
| Communication, general | 174 | 64 | 110 | 63.2 |
| Communication, aggregated | 90 | 36 | 54 | 60.0 |
| Non-S&E fields nec | 947 | 336 | 611 | 64.5 |
| Architecture and environmental design | 120 | 47 | 73 | 60.8 |
| Family, consumer sciences and human sciences | 91 | 26 | 65 | 71.4 |
| Parks, sports, recreation, leisure and fitness | 57 | 28 | 29 | 50.9 |
| Public administration | 221 | 93 | 128 | 57.9 |
| Social work | 310 | 71 | 239 | 77.1 |
| Fields nec, aggregated | 148 | 71 | 77 | 52.0 |

nec = not elsewhere classified; S&E = science and engineering.

Note(s):

See table A-5 in the technical notes for a listing of aggregated fields and their constituent fine fields.

Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

^a Includes respondents who did not report sex.

^b Includes other non-S&E fields not shown separately.